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Serial Number: 09/295,463 Filing Date: April 13, 1999

Art Unit: 1631

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PTO/SB/21 (08-03) Approved for use through 08/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Pagerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid QMB control number. Application Number 09/295,463 TRANSMITTAL Filing Date April 13, 1999 First Named Inventor **FORM** Lex M. Cowsert Art Unit (to be used for all correspondence after initial filling) Examiner Name Ardin H. Marschel Attorney Docket Number ISIS-3455 18 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication to Technology Center (TC) Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attomey, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please Terminal Disclaimer (dentify below): Extension of Time Request Request for Refund Express Abandonment Request CD, Number of CD(\$) Information Disclosure Statement Certified Copy of Priority Revocation of Power of Atttorney with Statement Under 37 CFR 3.73(b) Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Herb Boswell Individual name Signature Date CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Pamela Grooms

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Attorney Docket Number

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ISIS-3455

Under the Paperwork Reduction Act of 1995, no persons are require	ed to respond to a collection of information un	iless il displays a valid OMB control num	ber.
	Application Number	09/295,463	
REVOCATION OF POWER OF	Filing Date	April 13, 1999	
ATTORNEY WITH	First Named Inventor	Lex M. Cowsert	
NEW POWER OF ATTORNEY	Art Unit	1631	
AND	Evaminer Name	Ardin H. Marachal	

I hereby revoke all previous powers of attorney given in the above-identified application. A Power of Attorney is submitted herewith. OR 35807 I hereby appoint the practitioners associated with the Customer Number: Please change the correspondence address for the above-identified application to: The address associated with 35807 Customer Number: OR Firm or Individual Name Address Address Zip State City Country Fax Telephone I am the: Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. 7 Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96) SIGNATURE of Applicant or Assignee of Record Name B. Lynne Parshall Signature Telephone Date 760 603-2460 -5-04 NOTE: Fignatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below". forms are aubmitted.

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STATEMENT UNDER 37 CFR 3.73(b)
Applicant/Patent Owner: Sis Pharmaceuticals, Inc.
Application No./Patent No.: D1295, 463 Filed/Issue Date: April 13, 1999
Entitled: Identification of Genetic Targets for Modulation by Oligan weethers and generation of Corporation (Sis Pharmaceuticals, Time., a Corporation (Type of Assignee) (Type of Assignee) (Type of Assignee)
states that it is: 1. X the assignee of the entire right, title, and interest; or
2. In an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is ——————————————————————————————————
A. DAAn assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel OLOOFF, Frame O285, or for which a copy thereof is attached.
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B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:
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[] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.
1-5-04 Date Typed or printed name
760 603 - 2460 Typed or printed fiame
Telephone number Signature
6xecutive Vice President & OFD

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1650 MARKET STREET

PHILADELPHIA, PENNSYLVANIA 19103-7301



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REEL/FRAME: 010047/0285 NUMBER OF PAGES: 13

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

COWSERT, LEX M.

DOC DATE: 05/26/1999

ASSIGNOR:

BAKER, BRENDA F.

DOC DATE: 06/15/1999

ASSIGNOR:

MCNEIL, JOHN

DOC DATE: 06/02/1999

ASSIGNOR:

FREIER, SUSAN M.

DOC DATE: 06/09/1999

ASSIGNOR:

SASMOR, HENRI M.

DOC DATE: 06/11/1999

ASSIGNOR:

BROOKS, DOUGLAS G.

DOC DATE: 06/03/1999

ASSIGNOR:

OHASHI, CARA

DOC DATE: 05/24/1999

Ι

010047/0285 PAGE 2

ASSIGNOR:

WYATT, JACQUELINE R.

DOC DATE: 05/26/1999

ASSIGNOR:

BORCHERS, ALEXANDER H.

DOC DATE: 06/01/1999

ASSIGNOR:

VICKERS, TIMOTHY A.

DOC DATE: 05/27/1999

ASSIGNEE:

ISIS PHARMACEUTICALS, INC. 2292 FARADAY AVENUE

CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 09295463

PATENT NUMBER:

FILING DATE: 04/13/1999

ISSUE DATE:

KIMBERLY WHITE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

06-28-1999

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Patents and Trademarks. Please record the attached original documents or copy

Name of conveying party(ies):
 Lex M. Cowsert, Brenda F. Baker, John McNeil, Susan

M. Freier, Henri M. Sasmor, Douglas G. Brooks, Cara Ohashi, Jacqueline R. Wyatt, Alexander H. Borchers, Timothy A. Vickers

Additional name(s) of conveying party(ies) attached? () YES (X) NO

3. Nature of Conveyance:

(X) Assignment

() Merger

() Security Agreement

() Change of Name

() Other:

Execution Date(s): May 26, 1999; June 15, 1999; June 2, 1999; June 9, 1999; June 11, 1999; June 3, 1999; May 24, 1999; May 26, 1999; June 1, 1999; May 27, 1999

2. Name and address of receiving party(ies):

Name: ISIS Pharmaceuticals, Inc.

Street Address: 2292 Faraday Avenue

City: Carlsbad

State California

ZIP 92008

Additional name(s) & address attached? ()YES (X)NO

4. Application number(s) or patent number(s):09/295,463
If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? () YES (X) NO

5. Name and address of party to whom correspondence concerning documents should be mailed:

Name: Paul K. Legaard

Internal Address: WOODCOCK WASHBURN KURTZ

MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor

Philadelphia, Pennsylvania 19103-7301

Street Address: WOODCOCK WASHBURN KURTZ

MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor

1650 Market Street

Philadelphia, Pennsylvania 19103-7301

6. Total number of applications and patents involved: One

7. Total fee (37 CFR 3.41):.....\$40.00 (X) Enclosed

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2--⁷⁷ . 1801 17 F295-23

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Paul K. Legaard/Reg. 38,534

Name of Person Signing/Reg. No.

Signature Signature

June 21, 1999

Date

Total number of pages including cover sheet, attachments, and document: 14

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231 DOCKET NO.: ISIS-3455

PATENT

ASSIGNMENT

WHEREAS, Lex M. Cowsert of Carlsbad, California, Brenda F. Baker of Carlsbad, California, John McNeil of LaJolla, California, Susan M. Freier of San Diego, California, Oceanside, 415
Henri M. Sasmor of Encinitas, California, Douglas G. Brooks, of San Marcos, California, Cara Ohashi of San Francisco, California, Jacqueline R. Wyatt of Encinitas, California, Alexander H. Borchers of Encinitas, California and Timothy A. Vickers of Oceanside, California, have invented a certain invention entitled IDENTIFICATION OF GENETIC TARGETS FOR MODULATION BY OLIGONUCLEOTIDES AND GENERATION OF OLIGONUCLEOTIDES FOR GENE MODULATION, for which we have made application for Letters Patent of the United States, said application having been filed on April 13, 1999 and assigned Serial No. 09/295,463; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign

ASSIGNMENT - PAGE 1 OF 12

DOCKET NO.: ISIS-3455

PATENT

to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

ASSIGNMENT - PAGE 2 OF 12

LANE B.D., SCHWARTZ
Commission # 1196197
Notary Public - Calliomia
San Diego County
My Comm. Expires Sep 13, 2002

DOCKET NO.: ISIS-3455			PATENT
IN WITNESS WHEREC	F, we have hereunto	set our bands and seals.	
Dated: <u>5/26</u>		M. Cowsert	
State of California)	,		
County of San Diego)	ŞS.		·
On this da Notary Public for the state, person to me on the hasis of satisfact Assignment and acknowledged to and that by his her signature on person acted, executed the Assig	to the Assignment the parties in the control of the control of the Assignment the parties in the	the person who subscribed the uted the same in his her authoriz	o me/ proved - e foregoing ed capacity,

WITNESS my hand and official seal.

DOCKET NO.: ISIS-3455	PATENT
Dated: 6/15/99, 1999	Brenda F. Baker
State of California)	
County of San Diego)	
On this day of Notary Public for the state, personally appear	, 1999, before me, the undersigned, a red (Brenda F. Baker) personally known to me/proved
to me on the basis of satisfactory eviden	see to be the person who subscribed the foregoing
	eshe executed the same in his Mer authorized capacity,
and that by his/(ie) signature on the Assign	ment the person, or the entity on behalf of which the
person acted, executed the Assignment.	

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 4 OF 12

DOCKET NO.: ISIS-3455		. 1	PATE	ENT
Dated: 6/2/99	<u>Ž</u> , 1999	John McNeil		
State of California)		·	
County of San Diego) ss.)			÷
On this	evidence to be the place of the	person who subscribe same in his her auth	d the foregoing Assignn orized capacity, and tha	nent it by
LANE B.D. SCHWARTZ	WITNESS	my hand and official	seal.	

Signature of Notary

DOCKET NO.: ISIS-3455	·		PATENT
Dated: 9-June	, 1999	Susan M. Freier	· · · · · · · · · · · · · · · · · · ·
State of California County of San Diego)) ss.)		
On this	rsonally appeared (Sactory ovidence to ded to me that he/sho on the Assignment ssignment.	Susan M. Freier) person to be the person who s Dexecuted the same in hi	subscribed the foregoing some authorized capacity, ty on behalf of which the

Signature of Notary

DOCKET NO.: 1818-3455			PATENT
Dated: 6-11-99	, 1999	Henri M. Sasmor	nev
State of California)) ss.		
County of San Diego)		
On this	rsonally appea sfactory evide sed to me that(t c on the Assign	nce to be the person who Ishe executed the same in	sonally known to me/ proved subscribed the foregoing his/her authorized capacity,

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - Collitornia
San Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

DOCKET NO.: ISIS-3455

PATENT

Dated: 6/3/99, 1999 Douglas G. Brooks
State of California) ss.
County of San Diego)
On this

DOCKET NO.: ISIS-3455				PATEN
Dated: may 24	, 1999	Cona Cara Ohashi	Chashi	
State of California)) ss.			
County of San Diego San Maleo)			
On this 244 Notary Public for the state, p me on the basis of satisfactor and acknowledged to me tha his/her signature on the Assi executed the Assignment.	ersonally appe y evidence to b t he/she execut	ared (Cara Oha e the person whe ed the same in	ishi) <u>personally k</u> no subscribed the his/her authorized	nown to me/proved to foregoing Assignment I capacity, and that by
	WITN	NESS my hand	and official seal.	
:	سسس	<u> </u>		

DOCKEL NO:: 1219-3455			~~~~~~
Dated:5/24	, 1999	Jacqueline R. Wyatt	
State of California)) ss.		
County of San Diego)		
Notary Public for the sta me/proved to me on the bas Assignment and acknowle	te, personally a is of satisfactory dged to me that b are on the Assign	ppeared (Jacqueline R. Wyatt) perceidence to be the person who subscripe executed the same in his herenment the person, or the entity on the	ersonally known to cribed the foregoing authorized capacity,
LANE B.D. SCHWARTI Commission # 119619 Notary Public - Califor San Diego County My Comm. Boires Sep 13.	nka sei	NESS my hand and official scal.	

DOCKET NO.: ISIS-3455	A O I A
Dated: <u>June 1</u>	
State of California)) ss.
County of San Diego)
Notary Public for the state, me/proved to me on the basis Assignment and acknowleds	day of, 1999, before me, the undersigned, a personally appeared (Alexander H. Borchers) personally known to of satisfactory evidence to be the person who subscribed the foregoing ged to me that he she executed the same in his/her authorized capacity, on the Assignment the person, or the entity on behalf of which the assignment.
	WITNESS my hand and official seal.

Ι

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Dated: \$\frac{5}{27}	, 1999	Timothy A. Vi	ickers	
State of California)) ss.			
County of San Diego)	•		
On this	ef satisfactor ged to me that e on the Assig	y evidence to be u he/she executed t	ne person who suches he same in 163/he	er authorized capacity,

WITNESS my hand and official seal.

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diega County
Au Comm. Princes Sep 13, 2002

Signature of Notary